TABLE 5:
SUPPLY AND DISTRIBUTION OF DOMESTIC & FOREIGN RAW COTTON IN THE U.S. FOR THE SEASONS BEGINNING AUGUST 1ST

THOUSAND RUNNING BALES [a]

SUPPLY & DISTRIBUTION	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989[b]
SUPPLY												
BEGINNING STOCK (AUGUST 1ST)	5347	3958	3000	2668	6632	7937	2775	4102	9348	5026	5771	7500
NET IMPORTS	4	5	28	26	20	12	24	33	3	2	3	2
U.S PRODUCTION (GINNINGS)[c]	10856	14629	10991	15380	11963	7771	12982	13432	9731	14760	15412	11834
CITY CROP (EST)[d]	+	+	131	266								
TOTAL SUPPLY	**16207**	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19788**	**21186**	**19336**
DISTRIBUTION												
NET EXPORTS	6180	9229	5926	6567	5207	6786	6215	1960	6684	6600	6250	7800
U.S. CONSUMPTION	6352	6506	5891	5264	5513	5926	5540	6399	7452	7700	7550	7700
ADJUSTMENT ITEM[e]	-283	-143	-335	-123	-42	233	-76	-140	-80	-112	-115	-64
ENDING STOCK (JULY 31ST)	3958	3000	2668	6632	7937	2775	4102	9348	5026	5771	7500	3900
DIVIDED AS-												
PRIVATELY OWNED	3291	2463	1995	NO LONGER AVAILABLE								
GOVERNMENT CONTROLLED[f]	667	537	673									
TOTAL DISTRIBUTION	**16207**	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19959**	**21185**	**19336**

SOURCES: U.S. Department of Agriculture, ***Cotton and Wool Situation and Outlook,*** and the National Cotton Council Economic Services. For earlier years' data, see page 178 of the October 1967 ***Textile Organon*** and page 158 of the October 1978 issue.

a. Adjusted to 480-pound net weight bales.
b. Data estimated except for beginning stock.
c. Total ginnings within the crop year shown. Note that U.S. production given in the world tables on pages 263 and 264 also includes city crop, etc.
d. Consists of rebaled samples and pickings from cotton damaged by fire and weather (partially estimated).
e. The Census Bureau's difference between supply and distribution resulting from baleage destroyed, cotton in transit, etc.
f. Loan and pooled cotton under CCC and earlier programs.

TABLE 6:
U.S. CALENDAR YEAR IMPORTS & EXPORTS OF RAW COTTON & COTTON PRODUCTS

THOUSAND RUNNING BALES

PRODUCTS	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
IMPORTS											
RAW COTTON[a]	4	5	28	26	20	12	24	33	3	2	3
COTTON YARN	63	25	39	48	59	85	110	112	215	275	194
MANUFACTURED GOODS[b]	1698	1529	1650	1956	1869	2280	2943	3282	3980	4866	4414
TOTAL	**1765**	**1559**	**1717**	**2030**	**1948**	**2377**	**3077**	**3427**	**4198**	**5143**	**4611**
EXPORTS											
RAW COTTON[a]	6180	9229	5926	6567	5207	6786	6215	1960	6684	6600	6250
COTTON YARN	42	59	64	45	37	39	23	35	21	28	47
MANUFACTURED GOODS[b]	699	940	1037	720	528	418	406	409	572	621	688
TOTAL	**6921**	**10228**	**7027**	**7332**	**5772**	**7243**	**6644**	**2404**	**7277**	**7249**	**6985**
IMPORT BALANCE											
COTTON YARN+ MANUFACTURED GOODS[b]	+1020	+555	+588	+1239	+1363	+1908	+2624	+2950	+3602	+4492	+3873

SOURCES: U.S. Census Bureau and Department of Agriculture, ***Cotton and Wool Situation and Outlook.***

Raw cotton data are actual bales. Cotton yarn and manufactured goods data are the USDA raw cotton equivalents of these imports and exports.

a. Raw cotton data are for the crop year.
b. Includes thread, twine, cordage, woven & knit cloth, all types of apparel, home furnishings and other items such as industrial belts and belting, bags, braids and narrow fabrics.

TABLE 7:
U.S. COTTON ACREAGE & YIELD

SEASON BEGINNING AUGUST 1	HARVESTED THOUSAND ACRES	YIELD [a] LBS	PRODUCTION THOUSAND BALES [b]
1978	12400	420	10856
1979	12831	547	14629
1980	13215	404	11122
1981	13841	542	15646
1982	9734	590	11963
1983	7348	508	7771
1984	10380	600	12982
1985	10229	630	13432
1986	8468	552	9731
1987	10035	706	14760
1988 [c]	11943	619	15412
1989 [d]	9544	595	11834

SOURCE: International Cotton Advisory Committee.

a. Per harvested acre.
b. Production for the crop year in 480-pound net weight bales, regardless of when ginned. Does not include adjustment for city crop, etc.
c. Preliminary data.
d. International Cotton Advisory Committee estimate.

TABLE 8:
WORLDWIDE RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES [a]
MILLION POUNDS, GREASY BASIS & *PERCENT*

YEAR [b]	AUSTRALIA LBS	AUSTRALIA %	NEW ZEALAND LBS	NEW ZEALAND %	SOUTH AFRICA [c] LBS	SOUTH AFRICA [c] %	ARGENTINA LBS	ARGENTINA %	URUGUAY LBS	URUGUAY %	UNITED STATES LBS	UNITED STATES %	UNITED KINGDOM LBS	UNITED KINGDOM %	TURKEY LBS	TURKEY %	E. EUROPE & CHINA [d] LBS	E. EUROPE & CHINA [d] %	ALL OTHERS LBS	ALL OTHERS %	WORLD TOTAL LBS	WORLD TOTAL %
1950 - 54 e	1202	*27.6*	419	*9.6*	272	*6.2*	401	*9.2*	193	*4.4*	289	*6.6*	96	*2.2*	76	*1.8*	667	*15.3*	745	*17.1*	4360	*100*
1955 - 59 e	1537	*29.5*	513	*9.9*	313	*6.0*	406	*7.8*	184	*3.5*	305	*5.9*	113	*2.2*	90	*1.7*	945	*18.1*	800	*15.4*	5206	*100*
1960 - 64 e	1713	*30.2*	607	*10.7*	304	*5.4*	413	*7.3*	187	*3.3*	295	*5.2*	127	*2.2*	98	*1.7*	1132	*20.0*	796	*14.0*	5672	*100*
1965 - 69 e	1836	*30.8*	717	*12.0*	301	*5.0*	454	*7.6*	181	*3.0*	222	*3.7*	123	*2.1*	100	*1.7*	1216	*20.4*	817	*13.7*	5967	*100*
1970 - 74 e	1764	*30.5*	681	*11.8*	246	*4.3*	410	*7.1*	138	*2.4*	169	*2.9*	106	*1.8*	110	*1.9*	1339	*23.2*	813	*14.1*	5776	*100*
1975 - 79 e	1567	*26.6*	707	*12.0*	230	*3.9*	385	*6.5*	145	*2.5*	113	*1.9*	106	*1.8*	122	*2.1*	1549	*26.2*	975	*16.5*	5899	*100*
1980 - 84 e	1614	*25.3*	816	*12.8*	238	*3.7*	358	*5.6*	173	*2.7*	106	*1.7*	116	*1.8*	135	*2.1*	1803	*28.2*	1030	*16.1*	6390	*100*
1985 - 89 e	2030	*29.2*	754	*10.8*	212	*3.0*	347	*5.0*	195	*2.8*	88	*1.3*	139	*2.0*	165	*2.4*	1878	*27.0*	1152	*16.5*	6959	*100*
1978	1556	*26.0*	708	*11.8*	225	*3.8*	377	*6.3*	139	*2.3*	104	*1.7*	108	*1.8*	126	*2.1*	1620	*27.1*	1020	*17.1*	5983	*100*
1979	1564	*25.4*	787	*12.8*	227	*3.7*	377	*6.1*	154	*2.5*	106	*1.7*	106	*1.7*	130	*2.1*	1715	*27.8*	1002	*16.2*	6168	*100*
1980	1543	*24.6*	840	*13.4*	231	*3.7*	375	*6.0*	179	*2.8*	108	*1.7*	115	*1.8*	134	*2.1*	1735	*27.6*	1025	*16.3*	6285	*100*
1981	1581	*25.0*	800	*12.6*	242	*3.8*	370	*5.8*	168	*2.6*	112	*1.8*	112	*1.8*	137	*2.2*	1797	*28.4*	1016	*16.0*	6335	*100*
1982	1548	*24.4*	818	*12.9*	249	*3.9*	357	*5.6*	181	*2.9*	108	*1.7*	110	*1.7*	137	*2.2*	1823	*28.7*	1018	*16.0*	6349	*100*
1983	1605	*25.1*	802	*12.5*	238	*3.7*	357	*5.6*	181	*2.8*	104	*1.6*	119	*1.9*	137	*2.1*	1830	*28.6*	1031	*16.1*	6404	*100*
1984	1795	*27.3*	822	*12.5*	231	*3.5*	331	*5.0*	157	*2.4*	97	*1.5*	123	*1.9*	132	*2.0*	1828	*27.8*	1060	*16.1*	6576	*100*
1985	1830	*27.8*	789	*12.0*	216	*3.3*	335	*5.1*	192	*2.9*	90	*1.4*	128	*1.9*	134	*2.0*	1772	*27.0*	1090	*16.6*	6576	*100*
1986	1955	*29.0*	772	*11.5*	198	*2.9*	331	*4.9*	198	*2.9*	86	*1.3*	130	*1.9*	134	*2.0*	1843	*27.3*	1099	*16.3*	6746	*100*
1987 f	2019	*28.9*	763	*10.9*	203	*2.9*	346	*5.0*	196	*2.8*	88	*1.3*	137	*1.9*	187	*2.7*	1871	*26.8*	1170	*16.8*	6980	*100*
1988 f	2083	*29.1*	752	*10.5*	216	*3.0*	368	*5.1*	192	*2.7*	88	*1.2*	146	*2.0*	187	*2.6*	1936	*27.1*	1188	*16.7*	7156	*100*
1989 f	2264	*30.9*	692	*9.4*	225	*3.1*	353	*4.8*	198	*2.7*	88	*1.2*	154	*2.1*	181	*2.5*	1967	*26.8*	1215	*16.5*	7337	*100*

SOURCE: The Commonwealth Secretariat, Economic Affairs Division, ***Wool Quarterly.***

a. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn wool equivalent.
b. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries.
c. Excludes Lesotho and South West Africa.
d. Includes Albania, Bulgaria, China, P.R.C., Czechoslovakia, Germany, Dem. Rep, Hungary, Outer Mongolia, Poland, Romania, U.S.S.R. and Yugoslavia.
e. Five-year averages.
f. Preliminary estimates.

TABLE 9:
SUPPLY & DEMAND OF WOOL IN THE U.S.[a]
MILLION POUNDS, SCOURED BASIS

ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MILL CONSUMPTION OF WOOL											
APPAREL CLASS - DOMESTIC	91.2	92.1	77.4	142.2	119.7	151.8	153.3	123.0	154.3	154.4	140.7
- FOREIGN	37.3	32.4	47.3								
TOTAL APPAREL CLASS	**128.5**	**124.5**	**127.8**	**142.2**	**119.7**	**151.8**	**153.3**	**123.0**	**154.3**	**154.4**	**140.7**
CARPET CLASS	**13.1**	**9.9**	**10.0**	**10.7**	**9.8**	**10.7**	**9.9**	**11.7**	**10.2**	**13.2**	**15.4**
SUBTOTAL ABOVE[b]	**141.6**	**134.4**	**137.8**	**152.9**	**129.5**	**162.5**	**163.2**	**134.7**	**164.5**	**167.6**	**156.1**
CONSUMED ON THE COTTON SYSTEM[c]	3.0	2.5	3.8	2.7	1.8	3.3	5.5	4.2	4.1	6.9	6.8
TOTAL RAW WOOL	**144.6**	**136.9**	**141.6**	**155.6**	**131.3**	**165.8**	**168.7**	**138.9**	**168.6**	**174.5**	**162.9**
REPROCESSED - CARPET	16.8	17.0	10.5	10.9	9.8	8.1	7.6	5.3	9.5	7.9	3.8
- OTHER											
REUSED - OTHER											
TOTAL ABOVE	**161.4**	**153.9**	**152.1**	**166.5**	**141.1**	**173.9**	**176.3**	**144.2**	**178.1**	**182.4**	**166.7**
WOOL CONTENT OF IMPORTS											
TOPS[d]	0.6	0.4	0.3	0.3	0.5	0.8	3.2	2.0	1.8	1.0	0.7
YARNS	5.5	3.8	3.9	4.7	7.2	7.6	13.2	12.1	11.8	13.6	12.4
CARPETS & RUGS	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9	40.6
FABRICS [e] [f]	26.4	22.2	21.5	27.8	25.6	28.1	39.1	37.2	26.5	30.3	30.3
KNIT APPAREL	22.3	19.1	24.4	22.8	25.7	30.3	40.0	65.6	80.2	81.6	71.3
OTHER APPAREL	22.6	20.1	17.3	18.1	20.7	28.5	40.9	71.5	75.4	77.3	73.1
OTHER MANUFACTURES[g]	0.9	1.1	0.8	1.3	0.8	1.8	2.6	2.6	4.2	2.6	2.1
TOTAL IMPORTS	**92.2**	**80.6**	**85.1**	**93.1**	**100.1**	**131.9**	**190.1**	**250.2**	**260.5**	**258.3**	**230.5**
WOOL CONTENT OF EXPORTS											
CARPET	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.3
OTHER	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2	27.5
TOTAL EXPORTS	**11.6**	**14.0**	**23.8**	**11.8**	**10.8**	**9.7**	**9.5**	**15.9**	**14.2**	**21.3**	**27.8**
NET IMPORTS	**80.6**	**66.6**	**61.3**	**81.3**	**89.3**	**122.2**	**180.6**	**234.3**	**246.3**	**237.0**	**202.7**
TOTAL DISAPPEARANCE	**242.0**	**220.5**	**213.4**	**247.8**	**230.4**	**296.1**	**356.9**	**378.5**	**424.4**	**419.4**	**369.4**
SUPPLY & DEMAND IN CARPETS & RUGS											
CARPET WOOL CONSUMPTION	13.1	9.9	10.0	10.7	9.8	10.7	9.9	11.7	10.2	13.2	15.4
IMPORTS OF CARPETS	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9	40.6
EXPORTS OF CARPETS	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.3
TOTAL	**26.3**	**23.5**	**26.6**	**28.6**	**29.2**	**45.4**	**60.9**	**70.8**	**70.6**	**65.0**	**55.7**
% IMPORTS OF TOTAL	*53*	*59*	*63½*	*63½*	*67*	*76½*	*84*	*83½*	*86*	*80*	*73*
SUPPLY & DEMAND IN ALL OTHER PRODUCTS											
OTHER WOOL CONSUMPTION	148.3	144.0	142.1	155.8	131.3	163.2	166.4	132.5	167.9	169.2	151.3
IMPORTS	78.3	66.7	68.2	75.0	80.5	97.1	139.0	191.0	199.9	206.4	189.9
EXPORTS	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2	27.5
TOTAL	**215.7**	**197.0**	**186.8**	**219.2**	**201.2**	**250.7**	**296.0**	**307.7**	**353.8**	**354.4**	**313.7**
% IMPORTS OF TOTAL	*36½*	*34*	*35½*	*34*	*40*	*38½*	*47*	*62*	*56½*	*58*	*61*

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Situation and Outlook Yearbook.***

a. Calendar years.
b. Agrees with ***Fiber Organon's*** Selected U.S. Monthly Fiber Data Tables.
c. Raw wool consumed on the cotton spinning system.
d. Includes advanced wool.
e. Includes pile fabric & manufactures, tapestry & upholstery, press & billiard cloths.
f. Primarily broad woven, plus knit & narrow fabrics after 1984.
g. Includes knit & narrow fabrics until 1985, blankets and miscellaneous manufactures not elsewhere specified.

NOVEMBER 1989 CAPACITY SURVEY ANALYSIS

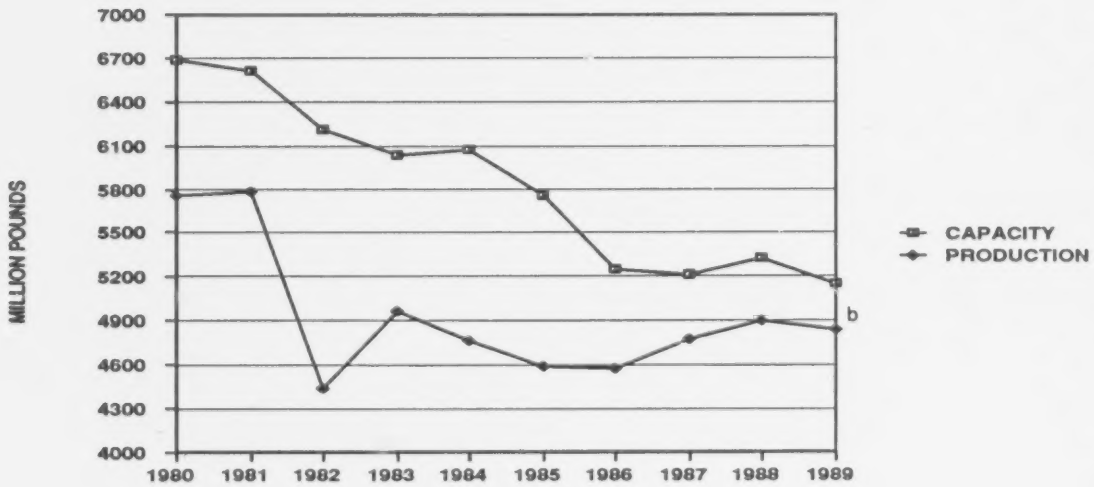
Total producing capacity for all manufactured fibers (except glass fiber) increased by 92 million pounds, or 1% from 1988 levels, to reach 10,397 million pounds. Most of the increase was in capacity for synthetic (noncellulosic) fiber to reach 9,673 million pounds, as artificial (cellulosic) fiber capacity increased 11 million pounds to reach 724 million pounds. (See Table 10)

Since the November 1988 Survey, synthetic (noncellulosic) filament capacity increased 175 million pounds to reach 4,918 million pounds. Within this category, nylon carpet capacity gained 115 million pounds, while polyester textile yarn capacity decreased 68 million pounds. However, the increase in capacity for olefin is mainly due to a more thorough response and not because of additional capacity coming on stream. (See Table 11)

In the same period, producing capacity for synthetic (noncellulosic) staple+tow fell 94 million pounds. The capacities for nylon staple increased 13 million pounds and olefin staple rose by 14 million pounds, while the capacity for polyester staple decreased by 120 million pounds.

Producing capacity and production of five major apparel fibers decreased since 1988, but remain well below their 1980 levels. Since 1980, the producing capacity of apparel fiber has fallen 77% to 5,159 million pounds and production has declined 16% to 4,845 million pounds.

GRAPH 1:
APPAREL FIBER PRODUCTION VS. CAPACITY [a]



a. Data are based on textile nylon, textile polyester, polyester staple, acrylic+modacrylic and cellulosic yarn+staple. The figures include some production and capacity for polyester staple and acrylic carpet yarn, and industrial rayon.

b. 1989 production data based on 11 months annualized.

TABLE 10:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

PERIOD	ARTIFICIAL (CELLULOSIC) FIBERS							SYNTHETIC (NONCELLULOSIC) FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
1988			214 g			400 g	614	4180	4346	8526	4394	4746	9140	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1977 •	85	315	400	655	8	663	1063	4958	4394	9352	5358	5057	10415	1002
NOV 1978 •	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 •	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 •	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 •	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1561
NOV 1982 •	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 •	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 •	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 •			269 g	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 •			244 g			465 g	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 •			244 g			465 g	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 •			244 g			469 g	713	4743	4849	9592	4987	5318	10305	1729
NOV 1989 •			232 g			492 g	724	4918	4755	9673	5150	5247	10397	1822
MAY 1990 f			232 g			492 g	724	5116	4898	10014	5348	5390	10738	1826
NOV 1990 f			232 g			492 g	724	5293	4952	10245	5525	5444	10969	1891
MAY 1991 f			237 g			492 g	729	5418	5037	10455	5655	5529	11184	1972
NOV 1991 f			237 g			492 g	729	5445	5117	10562	5682	5609	11291	2045

NA No longer available.

a. Included are those listed in the November *Fiber Organon* issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large quantities for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

d. Glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of MAY 1990.

g. Detail withheld due to disclosure of company data.

TABLE 11:
SYNTHETIC (NONCELLULOSIC) FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER											STAPLE, TOW & FIBERFILL					SYNTHETIC (NONCELLULOSIC) TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]				NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [e]	TOTAL	
			TEXTILE			TEXTILE											
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	TOTAL						
NOV 1977 d	523	829	558	*55*	443	1698	*126*	173	336	398	4958	939	869	2470	116	4394	9352
NOV 1978 d	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 d	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 d	515	910	551	*52*	400	1637	*113*	120	350	430	4913	991	830	2759	134	4714	9627
NOV 1981 d	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 d	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 d	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 d	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 d	437	965	466	*53*	374	1097	*126*	304	412	613	4668	1067	631	2785	407	4890	9558
NOV 1986 d	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 d	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 d	421	1053	423	*49*	408	968	*121*	392	399	679	4743	1137	642	2584	486	4849	9592
NOV 1989 d	420	1168	430	*48*	420	900	*115*	491	405	684	4918	1150	641	2464	500	4755	9673
MAY 1990 e	421	1187	440	*48*	420	945	*116*	601	403	699	5116	1157	646	2574	521	4898	10014
NOV 1990 e	421	1210	450	*48*	438	985	*118*	619	461	709	5293	1157	646	2615	534	4952	10245
MAY 1991 e	421	1220	455	*48*	441	995	*119*	695	478	713	5418	1157	646	2697	537	5037	10455
NOV 1991 e	421	1223	470	*48*	441	1000	*119*	696	478	716	5445	1167	646	2765	539	5117	10562

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.
IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.
CARP Bulked continuous filament yarn for carpets.
TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.
b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.
c. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.
d. Actual producing capacity as of date shown.
e. Future producing capacity planned for certain dates as of MAY 1990.
f. Data since November 1986 do not include Vinyon.

NOTE: THE INCREASE IN CAPACITY FOR OLEFIN YARN, MONOFILAMENT AND FILM FIBER IS DUE TO A MORE THOROUGH RESPONSE AND NOT BECAUSE OF ADDITIONAL CAPACITY COMING ON STREAM.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is not included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 12:
WORLDWIDE MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY EXCEPT OLEFIN
MILLION POUNDS

MANUFACTURED FIBER PRODUCTION

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1983	30876	100	7273	23	6454	21	5253	17	3761	12	1139	4	1492	5	1851	6	3653	12
1984	32620	100	7103	22	6630	20	5500	17	3851	12	1571	5	1674	5	2204	7	4087	12
1985	33871	100	6872	20	6788	20	5645	17	3948	12	2011	6	1820	5	2525	7	4262	13
1986	34736	100	7054	20	6685	19	5832	17	3694	11	2067	6	1932	6	2981	8	4491	13
1987	36412	100	7427	20	6691	19	6024	17	3618	10	2291	6	2170	6	3331	9	4860	13
1988	37752	100	7552	20	6840	17	6188	16	3621	10	2487	7	2491	7	3430	9	5143	14

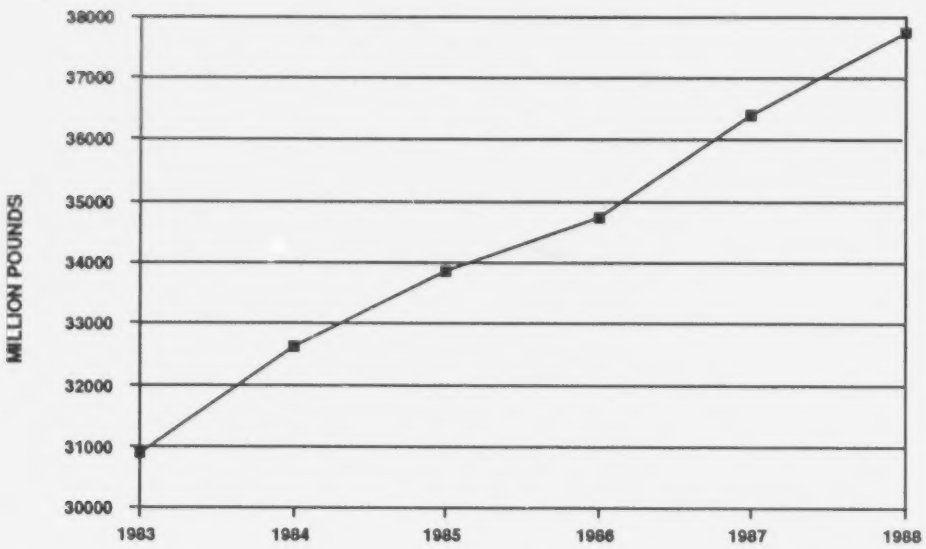
MANUFACTURED FIBER PRODUCING CAPACITY [a]

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1983	38414	100	8770	23	8173	21	6420	17	4494	12	1797	5	1651	4	2031	5	5078	13
1984	39017	100	8857	23	7964	20	6681	17	4156	11	2189	6	1715	4	2250	6	5205	13
1985	41017	100	8636	21	8102	20	7132	18	4607	11	2310	6	1773	4	2622	6	5835	14
1986	42187	100	8163	19	8116	19	7147	17	4776	11	2302	6	1981	5	3380	8	6322	15
1987	42812	100	8205	19	8189	19	7365	17	4778	11	2474	6	2034	5	3177	8	6590	15
1988	44958	100	8379	19	8293	18	7494	17	4750	11	2901	6	2398	5	3669	8	7074	16
1989	47461	100	8317	18	8188	17	7550	16	4649	10	3560	8	2702	5	4158	9	8237	17

SOURCE: *Fiber Organon* Worldwide Fiber Production & Producing Capacity Survey July 1989, and this issue page 270.

a. Capacity as of November of each year for the U.S.A. and as of March of each year for the other areas.

GRAPH 2:
WORLDWIDE MANUFACTURED FIBER PRODUCTION
(EXCEPT OLEFIN)



GRAPH 3:
WORLDWIDE MANUFACTURED FIBER PRODUCING CAPACITY
(EXCEPT OLEFIN)

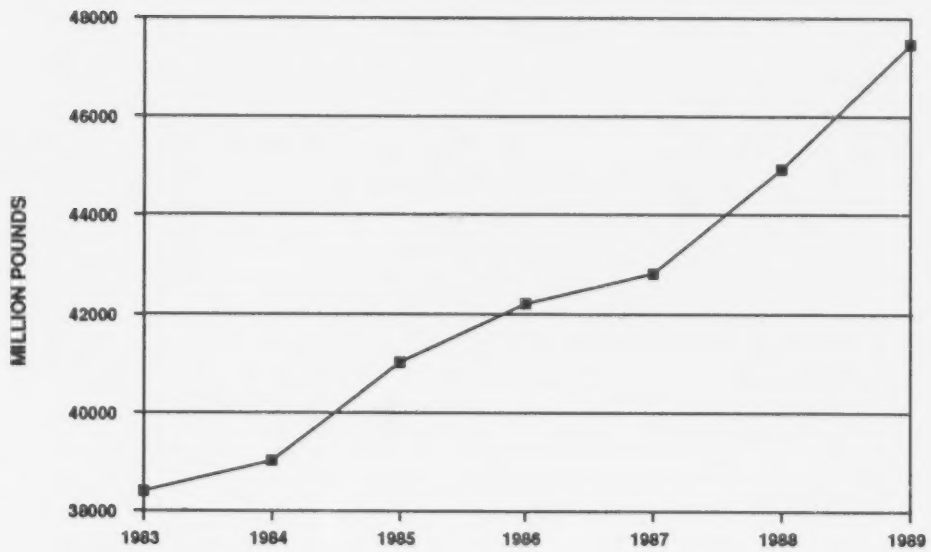


TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA 1985	1986	1987	1988	QUARTERLY DATA 1988 1ST Q	2ND Q	3RD Q	4TH Q	1989 1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN		*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY[b]	N	98.1	95.1	93.2	100.3	23.1	24.9	23.9	28.4	j	j	j	
OTHER CIRCULAR KNIT[c]	N	12.9	21.3	25.3	26.4	7.1	6.4	6.7	6.2	32.5	33.8	34.8	
	P	151.2	150.3	102.8	119.5	25.6	28.2	27.9	37.8	40.4	32.8	31.2	
	C	2.6	2.0	1.1	0.6	0.2	0.2	0.1	0.1	0.2	0.1	0.1	
FLAT KNIT	C	53.0	47.8	27.9	24.3	5.7	7.7	5.8	5.1	6.1	7.5	3.7	
	N	143.6	133.8	131.4	133.4	31.2	33.1	33.2	35.9	36.0	34.4	29.8	
	P	160.8	167.1	162.5	162.1	39.2	43.0	38.6	41.3	46.0	47.7	44.5	
CARPET FACE	N	815.4	881.4	916.0	938.3	228.2	233.8	241.2	235.1	225.0	233.8	243.7	
	O	202.1	215.7	244.5	266.6	65.1	67.9	67.2	66.4	69.0	63.3	60.2	
CARPET BACKING[d]	O	354.6	404.1	425.3	427.0	107.9	113.0	102.1	104.0	105.4	123.4	120.6	
OTHER BROAD WOVEN[e]	C	111.3	126.3	122.8	141.9	31.0	35.2	36.0	39.7	35.6	38.5	37.8	
	N	71.4	76.2	79.4	78.3	20.3	17.6	19.8	20.6	21.1	22.6	21.9	
	P	420.1	344.4	379.4	391.3	89.8	95.5	94.0	112.0	100.7	107.2	82.0	
	O	225.7	271.5	317.7	337.3	85.0	84.0	82.5	85.8	88.8	84.3	83.6	
NARROW WOVEN[f]	C	1.5	2.0	2.2	4.4	1.5	1.1	0.9	0.9	1.7	0.8	1.0	
	N	31.1	33.9	42.1	42.0	11.1	11.1	9.9	9.9	9.5	10.2	8.4	
	P	40.0	44.0	66.2	81.0	15.2	18.9	17.8	29.1	18.8	23.2	20.0	
	O	15.2	17.5	17.7	19.0	4.7	4.8	4.8	4.7	4.8	4.7	5.2	
TIRES, INCL. CHAFER[g]	N	146.0	134.2	143.0	132.2	34.5	33.1	31.2	33.4	34.3	33.6	32.6	
	P	155.5	159.3	162.8	171.8	41.3	44.2	43.4	42.9	41.7	43.6	42.3	
OTHER RUBBER INDUSTRY[c,g]	N	15.3	15.2	16.4	20.4	5.5	4.7	4.9	5.3	4.5	4.4	5.0	
	P	31.2	27.2	34.5	25.2	6.7	6.2	6.2	6.1	6.3	8.2	8.9	
ROPE, CORDAGE & FISHLINE	N	35.3	36.4	37.9	36.4	9.7	9.7	8.2	8.8	8.8	9.2	7.9	
	P	13.8	13.0	13.4	12.5	3.7	3.1	2.4	3.3	3.2	3.8	3.5	
	O	108.2	106.3	106.7	120.3	33.3	30.5	24.5	32.0	33.5	30.4	24.9	
ALL OTHER[h]	C	18.7	14.0	12.8	11.4	3.0	3.1	3.0	2.3	2.4	3.4	3.0	
	N	48.3	52.1	69.6	64.7	17.1	21.0	12.1	14.5	16.2	17.7	16.8	
	P	231.7	187.1	191.8	194.0	45.2	52.8	47.9	48.1	34.9	37.1	32.7	
	O	31.8	34.1	23.6	29.6	7.5	7.5	7.7	6.9	6.5	9.4	7.1	
TOTAL ABOVE	**C**	**187.1**	**192.1**	**166.8**	**182.6**	**41.4**	**47.3**	**45.8**	**48.1**	**46.0**	**50.3**	**45.6**	
	N	**1417.4**	**1479.6**	**1554.3**	**1572.4**	**387.8**	**395.4**	**391.1**	**398.1**	**387.9**	**399.7**	**400.9**	
	P	**1204.3**	**1092.4**	**1113.4**	**1157.4**	**266.7**	**291.9**	**278.2**	**320.6**	**292.0**	**303.6**	**265.1**	
	O	**937.6**	**1049.2**	**1135.5**	**1199.8**	**303.5**	**307.7**	**288.8**	**299.8**	**308.0**	**315.5**	**301.6**	
TOTAL DOMESTIC		**3746.4**	**3813.3**	**3970.0**	**4112.2**	**999.4**	**1042.3**	**1003.9**	**1066.6**	**1033.9**	**1069.1**	**1013.2**	
ALSO DIVIDED AS													
APPAREL		*1064.8*	*962.4*	*930.2*	*941.2*	*223.0*	*237.0*	*226.0*	*255.2*	*253.4*	*253.7*	*218.5*	
HOME FURNISHINGS		*1624.9*	*1738.0*	*1838.4*	*1902.6*	*463.0*	*485.0*	*475.1*	*479.5*	*468.6*	*498.1*	*489.9*	
INDUSTRIAL		*1056.7*	*1112.9*	*1201.4*	*1268.4*	*313.4*	*320.3*	*302.8*	*331.9*	*311.9*	*317.3*	*304.8*	
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		114.9	115.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
POLYESTER		776.3	634.6	626.3	649.9	146.7	159.2	153.8	190.2	164.5	164.0	139.7	
OLEFIN		22.3	22.9	26.6	24.4	6.4	6.4	5.5	6.1	6.9	4.4	8.0	

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA 1988				QUARTERLY DATA 1989			
		1985	1986	1987	1988	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON	*(N) NYLON*	*(A) ACRYLIC+MODACRYLIC*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	197.2	228.8	192.4	183.2	47.5	46.7	46.4	42.6	48.4	47.3	41.5	
	NPR	5.5	5.0	3.5	2.7	0.8	0.7	0.6	0.6	0.7	0.4	0.5	
PILE FABRICS[b]	A	24.5	23.2	20.8	21.3	5.0	5.7	5.6	5.0	5.1	6.0	5.0	
	P	14.9	15.0	19.7	14.7	3.9	3.6	3.3	3.9	3.7	4.0	4.1	
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	5.5	4.7	3.7	2.5	0.5	0.3	0.8	0.9	0.8	1.0	1.0	
	A	139.1	196.3	185.1	139.0	37.8	39.6	34.2	27.4	35.7	34.9	36.4	
	P	295.5	367.8	453.3	470.0	108.4	112.6	108.5	140.5	127.8	131.4	132.0	
BLANKETS[b]	A	30.2	26.7	25.7	25.1	6.4	5.6	7.9	5.2	7.4	9.3	7.4	
	P	6.2	3.7	9.2	6.9	1.8	1.4	1.6	2.1	2.3	2.9	2.4	
OTHER BROAD WOVEN	R	174.9	218.0	230.7	243.0	58.7	60.5	63.5	60.3	69.1	59.7	50.6	
	N	37.4	37.0	38.7	35.2	8.7	8.0	8.4	10.1	8.1	7.8	8.7	
	A	38.2	35.3	41.7	39.3	10.4	9.6	8.9	10.4	12.6	11.5	8.5	
	P	864.9	885.6	839.2	863.5	210.7	212.9	205.7	234.2	200.8	226.4	197.6	
	O	26.9	18.0	20.2	17.1	4.6	3.8	3.4	5.3	5.2	9.0	9.1	
CARPET FACE YARNS[f]	R	0.5	0.4	+	0.4	0.2	0.1	0	0.1	0.1	0.2	0.2	
	N	773.9	837.8	905.1	f	f	f	f	f	f	f	f	
	P	126.8	145.0	209.0	261.2	66.1	69.0	62.3	63.8	60.1	51.3	48.6	
	O	107.4	117.2	116.2	138.2	30.3	35.4	34.2	38.3	38.5	35.1	32.9	
FIBERFILL[d]	P	281.1	294.9	348.6	357.2	85.3	84.9	92.9	94.1	90.4	93.6	79.2	
FLOCK	NP	5.3	5.9	5.5	6.9	1.6	1.6	1.6	2.1	1.8	1.7	1.7	
	R	1.8	1.8	0.9	0.1	+	+	+	0.1	0	0	0	
NONWOVENS[e]	R	113.5	125.4	124.4	122.3	35.4	36.0	26.7	24.2	27.0	28.5	22.3	
	N	2.5	2.1	1.9	2.1	0.4	0.5	0.6	0.6	0.7	0.6	0.6	
	P	162.5	175.4	204.2	244.1	59.7	55.9	59.0	69.5	68.0	71.7	65.8	
	[g] VINYON+O	135.8	166.2	198.0	180.9	46.0	46.9	45.4	42.6	46.1	46.7	46.8	
ALL OTHER	R	25.9	20.8	22.7	17.2	6.9	5.0	2.9	2.4	2.6	2.3	2.5	
	N	11.2	11.9	14.8	901.4	229.0	214.0	231.1	227.3	231.6	221.1	234.6	
	A	29.5	20.9	13.6	13.2	1.9	2.1	4.3	4.9	3.7	3.4	4.0	
	P	116.9	108.3	115.0	91.3	21.5	31.4	17.3	21.1	21.5	12.9	13.0	
	[g] VINYON+O	9.6	11.3	6.7	8.0	2.9	1.5	1.8	1.8	1.8	2.7	2.6	
TOTAL ABOVE	**R**	**323.7**	**373.0**	**383.1**	**386.0**	**101.9**	**102.0**	**94.0**	**88.1**	**99.7**	**91.7**	**76.6**	
	N	**830.3**	**894.9**	**966.0**	**944.9**	**239.4**	**223.9**	**241.6**	**240.0**	**242.0**	**231.2**	**245.8**	
	A	**458.7**	**531.2**	**479.3**	**421.1**	**109.0**	**109.3**	**107.3**	**95.5**	**112.9**	**112.4**	**102.8**	
	P	**1872.7**	**1998.6**	**2201.0**	**2311.8**	**558.3**	**572.5**	**551.2**	**629.8**	**575.4**	**594.6**	**543.0**	
	[g] VINYON+O	**279.7**	**312.7**	**341.1**	**344.2**	**83.8**	**87.6**	**84.8**	**88.0**	**91.6**	**93.5**	**91.4**	
TOTAL DOMESTIC		**3765.1**	**4110.4**	**4370.5**	**4408.0**	**1092.4**	**1095.3**	**1078.9**	**1141.4**	**1121.6**	**1123.4**	**1059.6**	
ALSO DIVIDED AS													
APPAREL		*1255.0*	*1489.3*	*1479.9*	*1421.6*	*352.6*	*356.4*	*340.5*	*372.1*	*361.6*	*381.5*	*343.2*	
HOME FURNISHINGS		*1536.9*	*1625.8*	*1755.8*	*1827.5*	*451.5*	*445.9*	*455.5*	*474.6*	*467.2*	*441.1*	*441.1*	
INDUSTRIAL		*973.2*	*995.3*	*1134.8*	*1158.9*	*288.3*	*293.0*	*282.9*	*294.7*	*292.8*	*300.8*	*275.3*	

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1989 data exclude Vinyon.

BASF ACRYLIC OPERATIONS SOLD TO MANN INDUSTRIES INC.

BASF has sold its acrylic fibers and spun yarn plants to The Mann Group of Greensboro, NC. The sale includes two plants, support facilities and about 42 acres of land in James City County. (BASF news release)

TABLE 15:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408	205	111	192	176	252	148	175			2047	
TEXTURED	180	1	0	24	0	27	497	58	275	222			1284	
OTHER	1726	1532	1671	1449	1732	1673	1402	2036	1873	2048			17142	
MONOFILAMENTS & STRIPS	96	40	120	150	73	38	151	95	105	29			897	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**	**2441**	**2401**	**2474**			**21370**	**13769**
STAPLE	5924	3481	5624	4403	5312	3419	3113	5451	3512	4825			45064	
TOW	47	0	0	7	103	0	24	72	207	141			601	
TOPS	6	10	20	10	5	0	0	4	0	0			55	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**	**5527**	**3719**	**4966**			**45720**	**15509**
WASTE	**18**	**122**	**47**	**213**	**0**	**0**	**0**	**94**	**44**	**0**			**538**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1037	1093	1506	1578	1829	1964	1480	1706	1698	2290			16181	
TEXTURED														
UP TO 450 DENIER	385	217	359	265	319	315	333	428	270	234			3145	
OVER 450 DENIER	1311	1054	1428	1294	1241	654	943	865	1164	1360			11314	
OTHER	3820	3306	3786	3845	4296	5210	4007	4096	3664	3623			39653	
MONOFILAMENTS & STRIPS	72	159	58	113	143	116	120	63	89	132			1065	
SUBTOTAL ABOVE	**6625**	**5829**	**7137**	**7115**	**7828**	**8259**	**6883**	**7158**	**6885**	**7639**			**71358**	**31577**
POLYESTER														
HIGH TENACITY	957	880	909	488	797	703	361	603	557	686			6941	
TEXTURED	883	1673	1738	1766	1775	2385	1747	2230	1822	1231			17250	
POY	0	40	642	1088	2744	3214	3170	2407	989	821			15115	
OTHER	1152	1481	1719	1740	1324	1567	1551	1815	1487	2012			15848	
MONOFILAMENTS & STRIPS	65	80	34	55	24	70	73	65	171	27			664	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**	**5137**	**6664**	**7939**	**6902**	**7120**	**5026**	**4777**			**55818**	**30210**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550	1054	2074	1555	1199	1981	1981	2030			17166	
OTHER	261	386	339	274	171	136	1049	1015	944	1276			5851	
MONOFILAMENTS & STRIPS	147	299	308	324	395	357	1823	364	1236	1043			6296	
SUBTOTAL ABOVE	**2465**	**2370**	**2197**	**1652**	**2640**	**2048**	**4071**	**3360**	**4161**	**4349**			**29313**	**35771**
STAPLE														
NYLON	1726	1896	1845	1592	1422	1273	1445	1611	1396	2017			16223	
POLYESTER	5584	5594	10047	10627	10327	8674	9941	11597	12729	10748			95868	
ACRYLIC	1934	1028	1576	1518	1206	1511	1335	2194	839	1868			15009	
POLYPROPYLENE	44	55	197	351	93	220	298	55	150	374			1837	
OTHER	172	1040	651	740	167	165	259	245	83	272			3794	
TOW														
NYLON	237	433	257	504	341	315	225	524	221	623			3680	
POLYESTER	47	78	131	49	140	114	31	32	203	102			927	
ACRYLIC	2023	1709	1127	2522	2868	1462	1574	837	1751	1197			17070	
OTHER	117	120	146	0	0	14	0	15	0	0			412	
TOPS	488	358	398	437	334	201	216	136	116	75			2759	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**	**17246**	**17488**	**17276**			**157579**	**164703**
WASTE														
NYLON	1971	1804	1754	2087	1949	2027	1789	2266	1265	2170			19062	
POLYESTER	999	340	730	1029	846	973	1475	2106	1821	1942			12261	
OTHER	396	725	477	486	547	389	326	675	897	850			5768	
TOTAL MANUFACTURED FIBERS ABOVE	**35996**	**32985**	**41602**	**42307**	**44708**	**40933**	**42113**	**47993**	**43707**	**46443**			**418787**	**325552**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	229	84	46	26	74	73	105	171	124	198			1130	
SPUN YARN	492	396	370	267	418	406	466	798	368	374			4375	
SPUN YARNS														
SYNTHETIC	517	686	517	258	677	1019	937	801	902	755			7069	
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0			0	
PUT UP FOR RETAIL SALE	71	50	27	37	74	39	128	63	21	32			542	
GRAND TOTAL ABOVE	**37305**	**34201**	**42562**	**42915**	**45951**	**42470**	**43749**	**49826**	**45122**	**47802**			**431903**	**391962**

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 16:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45	26	30	16	74	117	78	82			490	
TEXTURED	463	17	29	1	29	28	1009	26	26	0			1628	
OTHER	694	63	18	60	21	15	51	30	6	5			963	
MONOFILAMENTS & STRIPS	90	0	7	93	5	9	21	12	2	8			247	
SUBTOTAL ABOVE	1256	93	99	180	85	68	1155	185	112	95			3328	10774
STAPLE	2827	1786	1325	920	1659	1786	2084	2167	1495	835			16884	
TOPS	94	0	8	129	53	48	7	101	133	0			573	
SUBTOTAL ABOVE	2921	1786	1333	1049	1712	1834	2091	2268	1628	835			17457	21377
WASTE	1303	559	1587	1116	1635	1108	1021	551	491	674			10045	1827
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	9331	9410	7884	16614	6326	6999	11613	7987	7577	6351			90092	
TEXTURED														
UP TO 450 DENIER	522	586	719	666	819	1271	488	856	954	951			7832	
OVER 450 DENIER	4706	5051	5459	4430	4096	3626	3176	4030	3042	4025			41641	
OTHER	2038	2103	2133	2188	2571	2003	1669	2028	1758	2422			20913	
MONOFILAMENTS & STRIPS	239	258	187	131	204	303	282	134	27	45			1810	
SUBTOTAL ABOVE	16836	17408	16382	24029	14016	14202	17228	15035	13358	13794			162288	137021
POLYESTER														
HIGH TENACITY	3031	3122	2773	3282	4214	4080	3334	3490	2679	4170			34175	
TEXTURED	3651	3677	2385	2939	3208	3577	1341	2557	2583	2683			28601	
POY	939	1250	2204	1446	629	528	2782	289	655	4749			15471	
OTHER	1007	584	829	983	777	1186	933	722	975	738			8734	
MONOFILAMENTS & STRIPS	208	213	203	132	302	332	275	346	353	237			2601	
SUBTOTAL ABOVE	8836	8846	8394	8782	9130	9703	8665	7404	7245	12577			89582	74431
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872	903	992	634	980	995	603	439			7908	
OTHER	1342	1471	1735	1730	1559	1332	1724	1527	1938	2032			16390	
MONOFILAMENTS & STRIPS	486	421	771	1317	927	987	687	860	675	538			7669	
SUBTOTAL ABOVE	2861	2349	3378	3950	3478	2953	3391	3382	3216	3009			31967	37899
STAPLE														
NYLON	2605	3265	3262	2629	3280	3985	2532	1797	2075	2333			27763	
POLYESTER	14048	10762	12940	12923	10675	7497	8203	8432	6815	7025			99320	
ACRYLIC	3326	5674	6643	6896	6342	9369	8569	6419	4571	7585			65394	
POLYPROPYLENE	1336	1569	1129	2264	2714	2477	1995	1454	8124	1791			24853	
OTHER	836	2036	1489	2562	1734	1757	2004	1412	2180	1363			17373	
TOW														
NYLON	31	50	50	108	141	86	56	61	32	31			646	
POLYESTER	37	564	472	634	7	621	541	113	319	283			3591	
ACRYLIC	1037	1761	2185	3302	1467	829	1070	899	1013	3056			16619	
OTHER	161	16	34	503	9	7	77	13	213	5			1038	
TOPS	847	964	1224	2191	3092	1230	1557	3000	2448	1206			17759	
SUBTOTAL ABOVE	24264	26661	29428	34012	29461	27858	26604	23600	27790	24678			274356	338793
WASTE														
NYLON	2127	2118	2159	2883	2102	2007	1852	2750	2640	2829			23467	
POLYESTER	4369	3980	3189	5535	3685	2726	3631	2444	3115	4007			36681	
OTHER	5113	6957	8080	6731	7071	5876	8304	5850	3966	4580			62528	
TOTAL MANUFACTURED FIBERS ABOVE	69886	70757	74029	88267	72375	68335	73942	63469	63561	67078			711699	734117
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43	74	9	93	41	77	46	141			588	
SPUN YARN	0	0	0	0	0	0	0	0	0	0			0	
SPUN YARNS														
SYNTHETIC	732	959	1152	1172	1944	1089	856	1532	1452	1016			11904	
ARTIFICIAL	0	0	0	0	0	0	0	0	2	0			2	
PUT UP FOR RETAIL SALE	606	740	923	580	532	435	536	704	521	1026			6603	
GRAND TOTAL ABOVE	71237	72507	76147	90093	74860	69952	75375	65782	65582	69261			730796	

SOURCE: U.S. Census Bureau Report EM522.

Effective January 1,1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 17:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6	1	4	0	139	0	37	112			299	
BRAZIL	53	110	55	0	54	76	22	53	53	26			502	
CANADA	745	619	586	613	656	532	399	634	533	747			6184	
CHILE	44	22	22	22	22	44	48	0	44	0			268	
GERMANY, FED. REP. OF	784	515	697	452	436	362	521	928	784	964			6443	
IRELAND	37	0	36	138	34	36	107	69	104	0			561	
JAPAN	55	121	122	185	110	206	57	81	72	42			1051	
KOREA, REP. OF	66	22	0	56	0	22	11	3	0	14			194	
MEXICO	156	99	171	45	153	144	213	141	169	124			1415	
NETHERLANDS	61	239	261	173	204	380	262	413	302	382			2677	
UNITED KINGDOM	75	68	113	135	75	66	84	40	71	47			774	
ALL OTHER COUNTRIES [a]	40	24	30	8	168	62	363	79	232	16			1022	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**	**1828**	**1916**	**1930**	**2226**	**2441**	**2401**	**2474**			**21370**	**13769**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377	226	381	430	394	568	39	482			3642	
CANADA	4757	1990	4093	3462	3409	2370	1638	4140	3000	3512			32371	
CHINA, PRC	104	0	369	0	752	0	110	0	0	0			1335	
GERMANY, DEM. REP.	0	0	95	43	82	80	44	0	0	0			344	
GERMANY, FED. REP. OF	68	67	95	116	124	142	208	179	236	183			1418	
JAPAN	150	521	422	263	107	60	84	61	174	147			1989	
SWITZERLAND	9	25	41	37	65	40	286	7	14	37			561	
TAIWAN	28	0	28	88	320	0	264	176	0	176			1080	
UNITED KINGDOM	265	225	1	47	69	42	67	135	130	190			1171	
ALL OTHER COUNTRIES [b]	273	241	123	138	111	255	42	261	126	239			1809	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**	**4420**	**5420**	**3419**	**3137**	**5527**	**3719**	**4966**			**45720**	**15509**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	30	46	0	11	38	1479	1	959	774			3338	
BELGIUM	0	56	115	171	343	236	568	685	399	323			2896	
BRAZIL	106	63	170	30	140	201	57	191	92	114			1164	
CANADA	3437	2926	2969	2399	3327	3304	2445	3580	3717	3978			32082	
COSTA RICA	252	487	591	433	415	517	537	515	657	541			4945	
ECUADOR	91	26	144	0	58	23	71	33	33	36			515	
FRANCE	1180	1151	1079	1159	1159	1085	972	799	516	1432			10532	
GERMANY, FED. REP. OF	2231	2204	2641	2514	2357	3691	2202	1988	2515	1844			24187	
ISRAEL	299	217	172	149	285	244	117	124	103	98			1808	
ITALY	924	323	873	859	1031	132	489	526	620	568			6345	
JAPAN	469	610	568	609	548	502	845	1110	960	1304			7525	
KOREA, REP. OF	10	49	7	81	98	42	89	0	59	17			452	
MEXICO	1447	2222	2385	1857	2527	2911	2490	2606	2210	1691			22546	
NETHERLANDS	68	193	267	338	69	63	398	104	7	381			1888	
SINGAPORE	0	25	0	33	0	33	16	16	16	0			139	
TAIWAN	50	175	650	1296	2844	3217	3133	2680	1259	1138			16442	
THAILAND	65	64	69	67	63	171	124	142	70	96			931	
UNITED KINGDOM	1482	1357	1409	1649	1790	1506	1635	2014	1437	2234			16513	
ALL OTHER COUNTRIES [c]	36	175	221	260	67	330	189	324	443	196			2241	
TOTAL SYNTHETIC YARN	**12147**	**12353**	**14376**	**13904**	**17132**	**18246**	**17856**	**17638**	**16072**	**16765**			**156489**	**97558**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9	13	1	0	79	0	11	2			118	
AUSTRALIA	31	160	1	82	16	43	149	78	0	134			694	
BELGIUM	47	99	60	56	67	7	7	378	35	368			1124	
CANADA	1413	737	1481	1489	1292	874	622	818	1242	1417			11385	
FRANCE	230	304	253	405	388	336	136	519	102	573			3246	
GERMANY, FED. REP. OF	1985	1758	1318	1293	1491	1780	1084	2057	753	1440			14959	
INDIA	0	0	3772	3400	709	49	1772	2893	3690	992			17277	
IRELAND	280	480	305	348	0	36	0	0	0	0			1449	
ITALY	482	394	206	46	61	34	70	193	264	217			1967	
JAPAN	1773	1757	2303	2770	2429	1826	1929	2894	1648	2554			21883	
KOREA, REP. OF	2297	3387	3933	4165	5687	4876	4806	2638	3190	4035			39014	
MEXICO	1049	372	420	1016	783	462	579	797	434	464			6376	
NETHERLANDS	31	103	99	81	56	105	21	617	365	44			1522	
SPAIN	8	0	178	39	65	128	0	0	0	34			452	
SWITZERLAND	146	165	134	186	125	42	242	214	88	126			1450	
TAIWAN	262	235	215	808	917	2057	2093	1994	4020	3424			16025	
TURKEY	18	0	0	0	111	37	90	105	0	269			630	
UNITED KINGDOM	2318	2304	1643	2107	2671	1229	1645	810	1535	1139			17401	
ALL OTHER COUNTRIES [d]	2	53	45	58	29	28	0	241	111	42			607	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**	**18340**	**16898**	**13949**	**15324**	**17246**	**17488**	**17276**			**157579**	**164703**

a. Belgium 617, Italy 123, Taiwan 68, China, PRC 51, France 46, Greece 41, Norway 32, Singapore 23, Egypt 21.

b. Poland 275, Finland 274, Australia 217, Italy 193, Romania 175, Korea, Rep. of 171, Sweden 131, France 122, Belgium 73, Spain 47, Norway 40, Peru 37, Chile 24, India 18, Thailand 11, Mexico 1.

c. Ireland 614, Portugal 340, Egypt 258, Turkey 201, Peru 139, Austria 124, Romania 86, China, PRC 82, Switzerland 72, Spain 69, Australia 51, El Salvador 38, Nigeria 36, Morocco 26, Hong Kong 24, Colombia 21, Honduras 20, Sweden 17, Greece 11, Denmark 9, Haiti 2, Norway 1, Yugoslavia 1.

d. Romania 243, Israel 169, Hong Kong 92, Brazil 59, Germany, Dem. Rep. 42, China, PRC 2.

Effective January 1, 1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1989	1988
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
ARTIFICIAL (CELLULOSIC)														
YARN	17.3	17.1	18.4	21.5	18.3	18.4	18.9	17.8	17.3	19.9	14.8		199.7	196.7
RAYON STAPLE	34.5	32.1	36.5	31.4	34.8	30.9	24.8	29.4	26.7	DATA NO LONGER AVAILABLE				
TOTAL ARTIFICIAL (CELLULOSIC)	51.8	49.2	54.9	52.9	53.1	49.3	43.7	47.2	44.0	19.9	14.8		199.7	196.7
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.6	32.3	28.9	32.7	29.1	29.2	28.6	28.8	28.7		332.7	343.8
- CARPET	74.9	77.2	82.0	77.5	86.1	78.5	73.4	89.9	88.7	79.5	78.7		886.4	900.0
- TEXTILE [f]	33.9	33.2	35.0	34.6	33.8	34.2	31.8	32.3	32.7	33.1	32.9		367.5	350.2
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2	30.4	32.8	29.8	32.5	29.2	30.3	26.4		332.8	328.5
- TEXTILE[f]	73.2	71.2	74.4	78.2	77.0	66.1	73.5	54.9	58.5	62.5	55.6		745.1	778.4
OLEFIN[e]	105.3	104.3	103.6	104.1	112.3	105.5	94.8	107.0	107.0	109.4	108.1		1161.4	1123.0
TOTAL YARN	347.2	346.1	358.5	358.9	368.5	349.8	332.4	345.8	344.7	343.6	330.4		3825.9	3823.9
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4	81.3	78.3	74.9	90.8	85.5	85.9	81.9		904.5	885.9
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2	51.7	44.0	41.1	47.6	44.1	44.0	41.9		500.1	541.1
POLYESTER	205.8	192.1	212.4	214.3	208.1	193.9	182.3	198.8	182.0	200.4	182.4		2172.5	2216.4
OLEFIN	31.1	31.6	32.0	31.4	32.3	31.2	27.8	33.9	33.1	33.4	30.1		347.9	334.2
TOTAL STAPLE	360.9	348.3	381.8	371.3	373.4	347.4	326.1	371.1	344.7	363.7	336.3		3925.0	3977.6
TOTAL SYNTHETIC (NONCELLULOSIC)	708.1	694.4	740.3	730.2	741.9	697.2	658.5	716.9	689.4	707.3	666.7		7750.9	7801.5
TOTAL MANUFACTURED FIBER	759.9	743.6	795.2	783.1	795.0	746.5	702.2	764.1	733.4	727.2	681.5		7950.6	7998.2
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	11.7	10.9	11.3	10.4	9.7	8.9	11.0	10.7	11.6	10.2	8.9		8.9	11.2
RAYON STAPLE	13.0	13.2	11.7	12.5	13.4	15.8	16.8	16.3	18.1	DATA NO LONGER AVAILABLE				
TOTAL ARTIFICIAL (CELLULOSIC)	24.7	24.1	23.0	22.9	23.1	24.7	27.8	27.0	29.7	10.2	8.9		8.9	11.2
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.8	22.4	22.9	24.2	24.5	26.7	27.3	28.7	30.4	25.8		25.8	23.6
- CARPET	63.5	63.2	62.8	68.7	64.0	66.8	73.6	59.3	54.6	51.5	56.6		56.6	56.0
- TEXTILE[f]	47.1	48.3	46.4	47.0	47.4	49.2	52.7	54.1	56.3	55.3	53.6		53.6	50.1
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6	30.9	31.9	33.9	32.3	33.2	33.9	35.6		35.6	30.1
- TEXTILE[f]	73.5	76.9	81.8	85.1	85.0	89.1	99.7	115.7	116.8	117.7	120.5		120.5	84.1
OLEFIN[e]	53.1	53.8	58.0	57.8	58.5	60.7	61.1	60.6	62.3	61.9	64.9		64.9	53.1
TOTAL YARN	296.8	298.4	302.0	313.1	310.0	322.2	347.7	349.3	351.9	350.7	357.0		357.0	297.0
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	51.0	57.5	57.5	57.0	59.1	46.9	46.8	48.8	50.5		50.5	46.7
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3	65.2	69.7	71.7	69.3	66.3	67.2	64.0		64.0	61.1
POLYESTER	163.5	163.6	158.5	164.4	176.2	191.0	226.5	233.6	218.9	219.7	204.4		204.4	159.9
OLEFIN	31.0	31.3	32.8	34.3	35.2	33.3	34.2	34.1	30.5	33.2	34.2		34.2	30.8
TOTAL STAPLE	316.8	316.3	311.3	323.5	334.1	351.0	391.5	383.9	362.5	368.9	353.1		353.1	298.5
TOTAL SYNTHETIC (NONCELLULOSIC)	613.4	614.7	613.3	636.6	644.1	673.2	739.2	733.2	714.4	719.6	710.1		710.1	595.5
TOTAL MANUFACTURED FIBER	638.1	638.8	636.3	659.5	667.2	697.9	767.0	760.2	744.1	729.8	719.0		719.0	606.7
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.1	12.8	14.1	11.5	11.5	11.3	10.6	10.9					94.8	96.1
CARPET CLASS WOOL	0.8	1.4	1.5	1.6	1.6	1.3	1.2	1.5					10.9	10.9
TOTAL RAW WOOL	12.9	14.2	15.6	13.1	13.1	12.6	11.8	12.4					105.7	107.0
RAW COTTON	289.5	301.0	339.2	305.7	362.3	343.5	286.8	341.0	404.4	324.5			3297.9	2939.7

a. "Year to date" totals for stock, are the latest month's figures. **Data for Rayon staple no longer available.**
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.

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Each issue of the ***Fiber Organon*** contains one or more principal topics. The following is a brief outline of the major subjects covered in the 1989 issues. The numbers in parentheses are the pages of each month's issue.

JANUARY	Special Feature: "Capacity Utilization Review" (1-20)
FEBRUARY	Special Feature: "1988 Import/Export Review" (21-36)
MARCH	Special Feature: "1988: A Year in Perspective" (37-64)
APRIL	Special Feature: " Import Review " (65-80)
MAY	Special Feature: "1988 Per Capita Consumption Review" (81-100)
JUNE	**Worldwide Manufactured Fiber Survey:** Directory of Worldwide Manufactured Fiber Producers (101-156)
JULY	Special Feature: "Worldwide Manufactured Fiber Data in Pounds" (157-180)
AUGUST	Special Feature: "Raw Fiber Equivalent of Imports, Exports & Balance" (181-200)
SEPTEMBER	**Annual U.S. End Use Survey** (201-220)
OCTOBER	Special Feature: "U.S. Manufactured Textile Trade Balance: An Overview" (221-240)
NOVEMBER	**1988 Directory of American Fiber Manufacturers** (241-260)
DECEMBER	Special Features: "Worldwide Natural Fiber Survey"; "November 1989 Capacity Survey Analysis" (261-284)

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FIBER ORGANON

Formerly Textile Organon

Volume 61, No. 1 ☐ January 1990

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Highlights

- Capacity Utilization Review...begins on page 3.
- Annual Shipment Summary...see page 10.
- Worldwide Net Available Supply...begins on page 14.

SHIPMENTS:

In December, total manufactured fiber shipments reached 670 million pounds, 1% below the 678 million pounds shipped in November and 14% below the 775 million pounds shipped in December 1988.

December shipments of synthetic (noncellulosic) filament yarn rose 1% to 331 million pounds and staple+tow fell 4% to 321 million pounds.

Contributing to the decrease in shipments over the previous month were olefin yarn down 12% or 13 million pounds, acrylic+modacrylic staple+tow down 12% or 5 million pounds and nylon staple+tow down 8 million pounds or 10%.

Year-to-date domestic shipments of manufactured fiber are down slightly and exports are down 19%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 DEC	1989 NOV	% CHG 12/89 - 11/89	1988 DEC	% CHG 12/89 - 12/88	YEAR TO DATE [d] 1989	YEAR TO DATE [d] 1988	% CHG YTD 1989-1988
ARTIFICIAL (CELLULOSIC)								
YARN	19.3	14.8	*+30.4*	20.0	*-3.5*	219.0	216.7	*+1.1*
RAYON STAPLE [d]	NA	NA	*NA*	NA	*NA*	NA	NA	*NA*
TOTAL ARTIFICIAL (CELL.)	**19.3**	**14.8**	***+30.4***	**20.0**	***-3.5***	**219.0**	**216.7**	***+1.1***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	31.9	28.7	*+11.1*	31.4	*+1.6*	364.6	375.2	*-2.8*
- CARPET	81.3	78.7	*+3.3*	76.2	*+6.7*	967.7	976.2	*-0.9*
- TEXTILE [a]	32.9	32.9	--	36.8	*-10.6*	400.4	387.0	*+3.5*
POLYESTER - INDUSTRIAL	32.2	26.4	*+22.0*	31.7	*+1.6*	365.0	360.2	*+1.3*
- TEXTILE [a]	59.8	55.7	*+7.4*	93.5	*-36.0*	804.0	871.9	*-7.8*
OLEFIN	92.4	105.4	*-12.3*	96.6	*-4.3*	1251.0	1219.6	*+2.6*
TOTAL YARN	**330.5**	**327.8**	***+0.8***	**366.2**	***-9.7***	**4152.7**	**4190.1**	***-0.9***
STAPLE+TOW+FIBERFILL								
NYLON	74.0	81.9	*-9.6*	78.0	*-5.1*	978.5	963.9	*+1.5*
ACRYLIC+MODACRYLIC	37.1	41.9	*-11.5*	49.1	*-24.4*	537.2	590.2	*-9.0*
POLYESTER	181.0	182.4	*-0.8*	232.5	*-22.2*	2353.5	2448.9	*-3.9*
OLEFIN	28.5	29.1	*-2.1*	29.6	*-3.7*	375.4	363.8	*+3.2*
TOTAL STAPLE	**320.6**	**335.3**	***-4.4***	**389.2**	***-17.6***	**4244.6**	**4366.8**	***-2.8***
TOTAL SYNTHETIC (NONCELL.)	**651.1**	**663.1**	***-1.8***	**755.4**	***-13.8***	**8397.3**	**8556.9**	***-1.9***
TOTAL MANUFACTURED FIBER	**670.4**	**677.9**	***-1.1***	**775.4**	***-13.5***	**8616.3**	**8773.6**	***-1.8***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	622.5	641.6	*-3.0*	716.1	*-13.1*	8129.9	8173.6	*-0.5*
EXPORTS [c]	47.9	36.3	*+32.0*	59.3	*-19.2*	486.4	600.0	*-18.9*

– No change.
NA No longer available
a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.
d. **Data for rayon staple no longer available.**

JANUARY 1990

Fiber Organon

A Monthly Review

Formerly ***Textile Organon***

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CAPACITY UTILIZATION REVIEW

***Editor's Note** : This issue features production, producing capacity and capacity utilization in the industry from 1979 to 1989. Capacity utilization rates are based on production and capacity sizes. Thus, a utilization rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

During this period, several notable trends surfaced. The growth of synthetic (noncellulosic) fiber production from 1979 (an increase of 1% by 1989) and a decline of artificial (cellulosic) yarn production (a decline of 42% by 1989). During the same time, capacity for synthetic (noncellulosic) fiber remained virtually unchanged (9.7 billion pounds in 1989), while capacity for artificial (cellulosic) yarn declined by 46%.

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1979-1989); Summary of Producing Capacities (1979-1989); Summary of Capacity Utilization Rates (1979-1989); Production of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Production; and Producing Capacity of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Capacity. Graphs show synthetic (noncellulosic) fiber production, capacity & capacity utilization, and also capacity & production trends of acrylic+modacrylic staple+tow, nylon carpet yarn, polyester textile yarn and polyester staple+tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference.

For this report, Fiber Economics Bureau **November** capacity survey data are used as the annual capacity figures. The Total Synthetic (Noncellulosic) data in this report do not include Glass Fiber or miscellaneous fibers such as spandex and saran.

TABLE 2:
REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION[a]
MILLION POUNDS & *PERCENT*

FIBER TYPE	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
SYNTHETIC (NONCELLULOSIC)											
PRODUCTION	8418	7874	7985	6442	7534	7473	7564	7828	8316	8526	8515
CAPACITY	9784	9627	9696	9334	9274	9460	9558	9207	9350	9592	9673
UTILIZATION (%)	*86.0*	*81.8*	*82.4*	*69.0*	*81.2*	*79.0*	*79.1*	*85.0*	*88.9*	*88.9*	*88.0*
ARTIFICIAL (CELLULOSIC)											
PRODUCTION	930	806	770	584	640	628	558	619	605	614	218[b]
CAPACITY	1109	909	898	895	845	845	784	709	709	713	232[b]
UTILIZATION (%)	*83.9*	*88.7*	*85.7*	*65.3*	*75.7*	*74.3*	*71.2*	*87.3*	*85.3*	*86.1*	*94.0*
TOTAL MANUFACTURED FIBERS											
PRODUCTION	9348	8680	8755	7026	8174	8101	8122	8447	8921	9140	8733
CAPACITY	10893	10536	10594	10229	10119	10305	10342	9916	10059	10305	9905
UTILIZATION (%)	*85.8*	*82.4*	*82.6*	*68.7*	*80.8*	*78.6*	*78.5*	*85.2*	*88.7*	*88.7*	*88.2*

a. Does not include data for Glass Fiber, saran, spandex, Aramid after 1982 or Vinyon after 1986.
b. Artificial (cellulosic) fiber for 1989 includes yarn+monofilament only. Data for staple+tow is no longer available.

TABLE 3:
SUMMARY OF ANNUAL PRODUCTION
MILLION POUNDS

YEAR	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1979	57	317	374	549	7	556	**930**
1980	47	309	356	443	7	450	**806**
1981	48	257	305	461	4	465	**770**
1982	33	195	228	355	1	356	**584**
1983	36	228	264	375	1	376	**640**
1984	41	198	239	389	+	389	**628**
1985	b	b	205	b	b	353	**558**
1986	b	b	215	b	b	404	**619**
1987	b	b	191	b	b	414	**605**
1988	b	b	214	b	b	400	**614**
1989	b	b	218	b	b	NA	**NA**

YEAR	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID [a]				POLYESTER										
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [c]	TOTAL STAPLE	
1979	499	528	755	1782	373	1342	1715	639	4136	939	2462	761	120	4282	**8418**
1980	437	466	728	1631	286	1176	1462	632	3725	72"	2527	779	116	4149	**7874**
1981	410	461	710	1581	309	1260	1569	643	3793	752	2607	691	142	4192	**7985**
1982	315	354	573	1242	292	921	1213	585	3040	685	1955	624	138	3402	**6442**
1983	315	415	762	1492	299	1060	1359	716	3567	926	2184	671	186	3967	**7534**
1984	379	394	804	1577	316	884	1200	748	3525	835	2192	671	250	3948	**7473**
1985	343	353	819	1515	294	1027	1321	954	3790	828	2020	631	295	3774	**7564**
1986	339	360	907	1606	319	854	1173	1058	3837	908	2132	616	335	3991	**7828**
1987	364	381	952	1697	337	842	1179	1134	4010	992	2362	592	360	4306	**8316**
1988	377	383	968	1728	367	861	1228	1224	4180	942	2452	588	364	4346	**8526**
1989	373	412	974	1759	367	842	1209	1260	4228	981	2384	542	380	4287	**8515**

NA No Longer Available.

a. Data since 1982 do not include Aramid.

b. Detail withheld due to company disclosure.

c. Data for Vinyon not included after 1986.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 4:
SUMMARY OF PRODUCING CAPACITIES
MILLION POUNDS

YEAR[a]	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1979	75	355	430	671	8	679	1109
1980	63	324	387	514	8	522	909
1981	52	332	384	509	5	514	898
1982	63	318	381	510	4	514	895
1983	63	268	331	510	4	514	845
1984	63	268	331	510	4	514	845
1985	b	b	269	510	5	515	784
1986	b	b	244	b	b	465	709
1987	b	b	244	b	b	465	709
1988	b	b	244	b	b	469	713
1989	b	b	232	b	b	492	724

YEAR[a]	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)	GLASS FIBER
	YARN+MONOFILAMENTS									STAPLE+TOW						
	NYLON+ARAMID[c]				POLYESTER											
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	NYLON+ ARAMID[c]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON[d]	TOTAL STAPLE		
1979	513	579	950	2042	443	1699	2142	922	5106	1020	2673	839	146	4678	9784	1305
1980	515	551	910	1976	400	1637	2037	900	4913	991	2759	830	134	4714	9627	1473
1981	514	553	893	1960	316	1481	1797	989	4746	1010	2839	835	266	4950	9696	1561
1982	474	513	925	1912	338	1265	1603	1038	4553	978	2700	832	271	4781	9334	1718
1983	440	494	907	1841	337	1170	1507	1099	4447	1017	2704	826	280	4827	9274	1618
1984	437	470	926	1833	342	1162	1504	1142	4479	1054	2784	807	336	4981	9460	1743
1985	437	466	965	1868	374	1097	1471	1329	4668	1067	2785	631	407	4890	9558	1769
1986	435	398	964	1797	401	1021	1422	1326	4545	1077	2491	637	457	4662	9207	1763
1987	418	404	1005	1827	399	929	1328	1402	4557	1137	2522	652	482	4793	9350	1642
1988	421	423	1053	1897	408	968	1376	1470	4743	1137	2584	642	486	4849	9592	1729
1989	420	430	1168	2018	420	900	1320	1580	4918	1150	2464	641	500	4755	9673	1822

a. **All annual capacity data are as of November of that year.**
b. Detail withheld due to disclosure.
c. Data since 1982 do not include Aramid.
d. Data for Vinyon not included after 1986.

The data do not include acetate tow for cigarette filtration.

IND means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.

CARP means bulked continuous filament yarn for carpets.

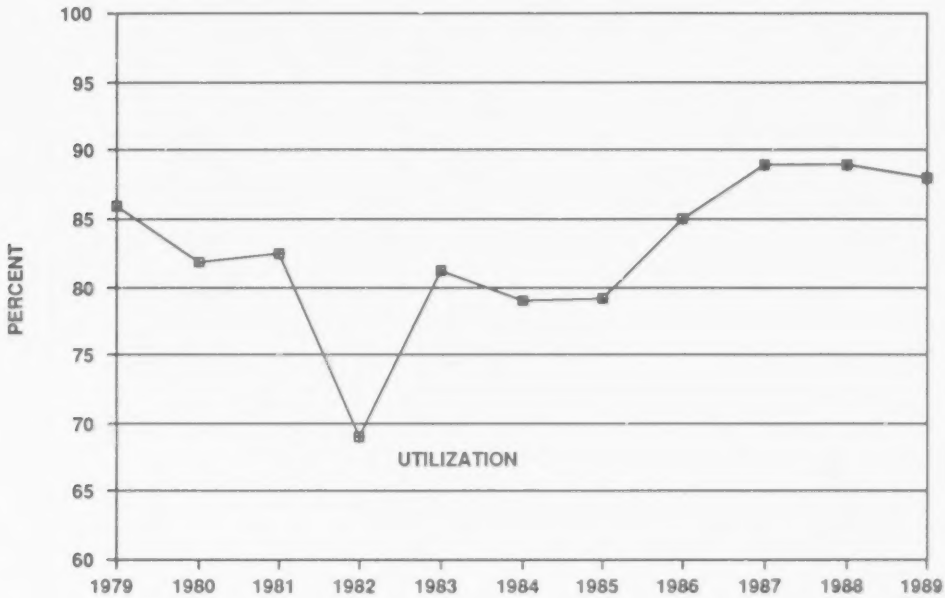
TEX means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, capacity data for miscellaneous fibers, such as saran and spandex, are not included.

NOTE: The increase in capacity for olefin yarn is due to a more thorough response and not because of additional capacity coming on stream.

GRAPH 1:
SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION



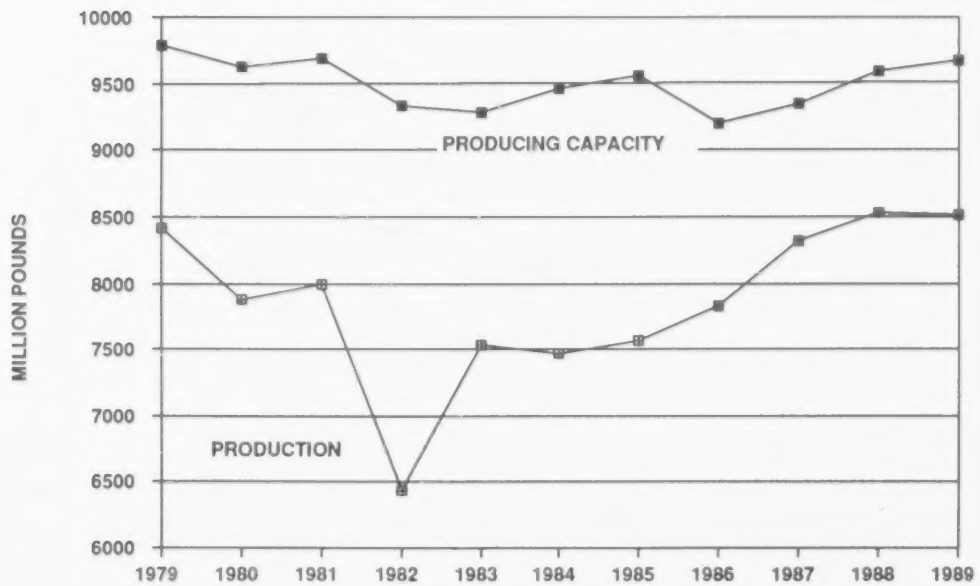


TABLE 5:
SUMMARY OF CAPACITY UTILIZATION RATES
PERCENT (%)

YEAR	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1979	76.0	89.3	87.0	81.8	87.5	81.9	**83.9**
1980	74.6	95.4	92.0	86.2	87.5	86.2	**88.7**
1981	92.3	77.4	79.4	90.6	80.0	90.5	**85.7**
1982	52.4	61.3	59.8	69.6	25.0	69.3	**65.3**
1983	57.1	85.1	79.8	73.5	25.0	73.2	**75.7**
1984	65.1	73.9	72.2	76.3	0	75.7	**74.3**
1985	b	b	76.2	b	b	68.5	**71.2**
1986	b	b	88.1	b	b	86.9	**87.3**
1987	b	b	78.3	b	b	89.0	**85.3**
1988	b	b	87.7	b	b	85.3	**86.1**
1989	b	b	94.0	b	b	NA	**NA**

YEAR	SYNTHETIC (NONCELLULOSIC) FIBERS [c]														TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID [a]				POLYESTER					NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE	
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN						
1979	97.3	91.2	79.5	87.3	84.2	79.0	80.1	69.3	81.0	92.1	92.1	90.7	82.2	91.5	**86.0**
1980	84.9	84.6	80.0	82.5	71.5	71.8	71.8	70.2	75.8	73.4	91.6	93.9	86.6	88.0	**81.8**
1981	79.8	83.4	79.5	80.7	97.8	85.1	87.3	65.0	79.9	74.5	91.8	82.8	53.4	84.7	**82.4**
1982	66.5	69.0	61.9	65.0	86.4	72.8	75.7	56.4	66.8	70.0	72.4	75.0	50.9	71.2	**69.0**
1983	71.6	84.0	84.0	81.0	88.7	90.6	90.2	65.2	80.2	91.1	80.8	81.2	66.4	82.2	**81.2**
1984	86.7	83.8	86.8	86.0	92.4	76.1	79.8	65.5	78.7	79.2	78.7	83.1	74.4	79.3	**79.0**
1985	78.5	75.8	84.9	81.1	78.6	93.6	89.8	71.8	81.2	77.6	72.5	100.0	72.5	77.2	**79.1**
1986	77.9	90.5	94.1	89.4	79.6	83.6	82.5	79.8	84.4	84.3	85.6	96.7	73.3	85.6	**85.0**
1987	87.1	94.3	94.7	92.9	84.5	90.6	88.8	80.9	88.0	87.2	93.7	90.8	74.7	89.8	**88.9**
1988	89.5	90.5	91.9	91.0	90.0	88.9	89.2	83.3	88.1	82.8	94.9	91.6	74.9	89.6	**88.9**
1989	88.8	95.8	83.4	87.2	87.4	93.6	91.6	79.7	86.0	85.3	96.8	84.6	76.0	90.2	**88.0**

All percentages based on data in the tables on pages 4 and 5.

NA No Longer Available.

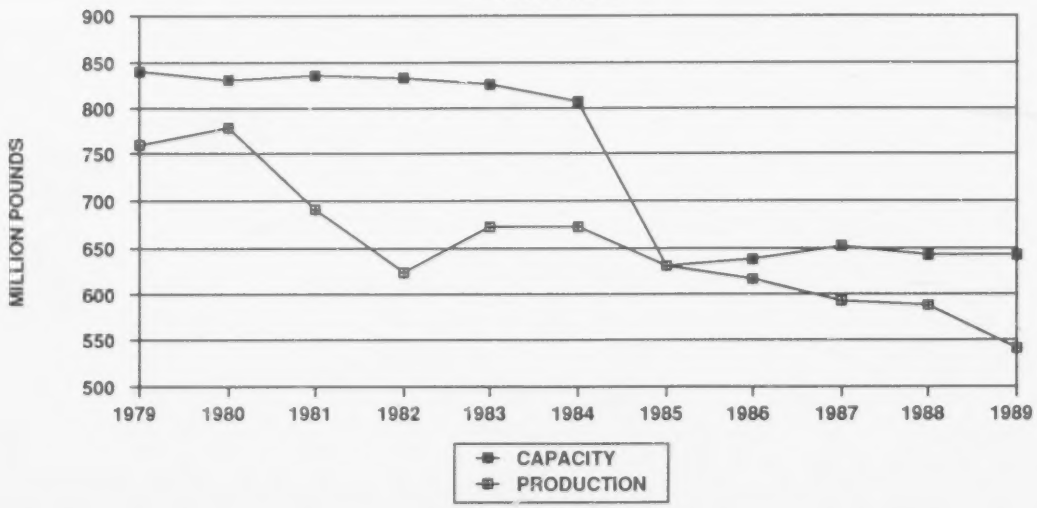
a. Data since 1982 do not include Aramid.

b. Detail withheld due to company disclosure.

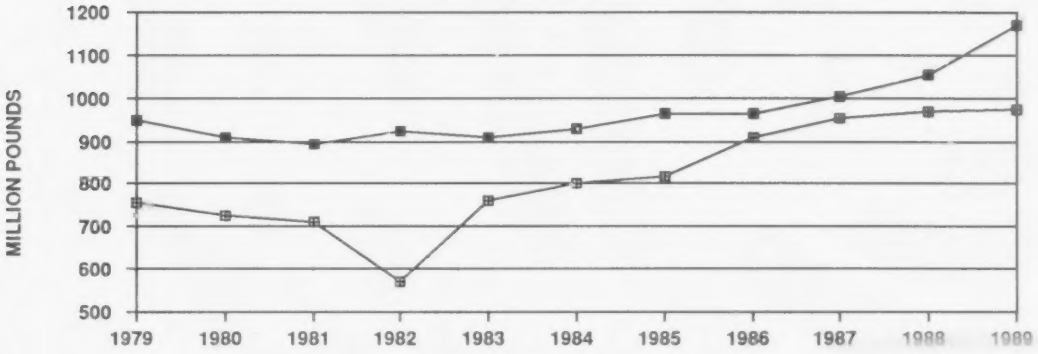
c. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

d. Data for Vinyon not included after 1986.

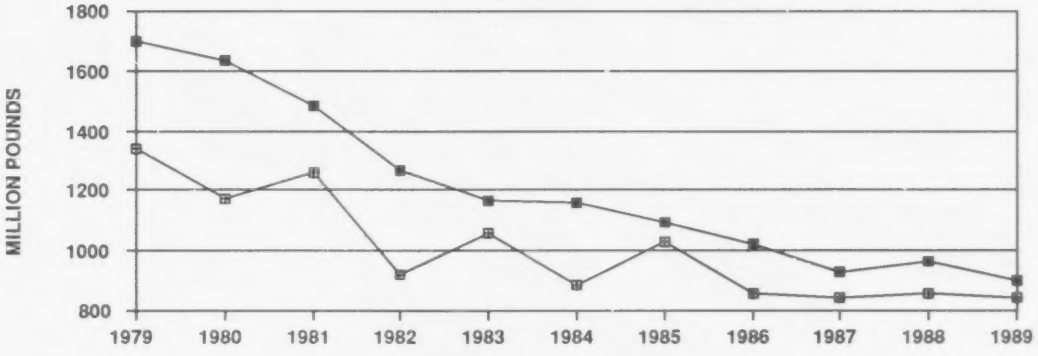
GRAPH 2:
ACRYLIC+MODACRYLIC STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



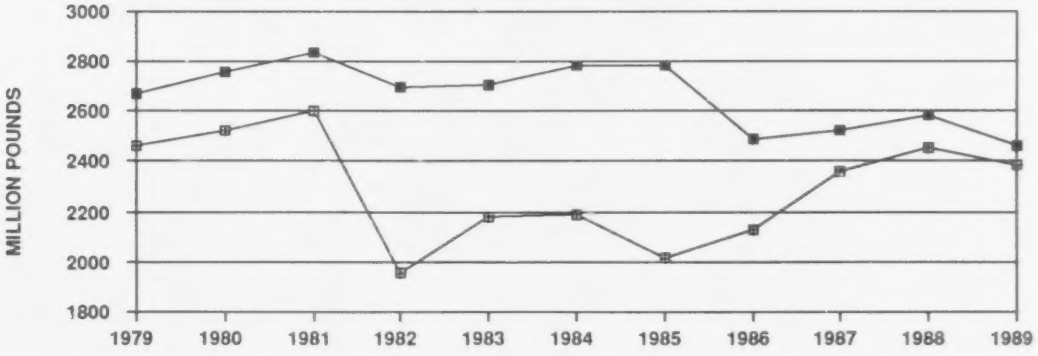
GRAPH 3:
NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



GRAPH 4:
POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



GRAPH 5:
POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



a. Includes low denier industrial.

CAPACITY
PRODUCTION